

PSM/PS Functional Testing

1. With the RPP computer running, power on the PDU unit by switching both PS 1 and PS 2 power switches to the “On” position.
2. Confirm that both the far left LED's are green, refer to figure 1.

Note:

PDU unit will take approximately 30 seconds to establish link with RPP computer. After that time the LED indicators will turn from red to green.

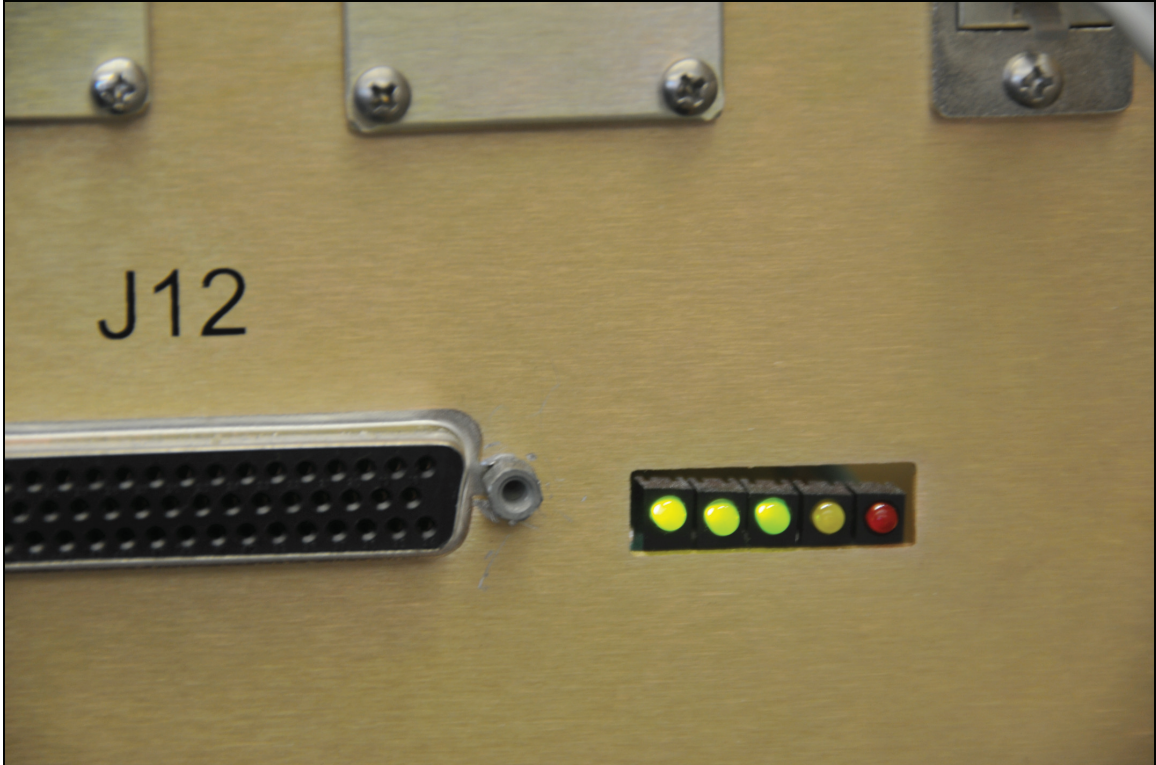


Figure 1 - PS 1 and PS 2 LED OK

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3. At the RPP computer, navigate to the PDU B status screen, using Firefox, refer to figure 2.

Power Supply Monitor - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://localhost/index.shtml?sortBy=LUID&dir=0

Radar Unit Monitor

Login

Home APU Monitor ADS Monitor Tools

FAA ARSR

Unit Monitor ::

PDU A
PDU B
ADU A
ADU B

Power Supply 1
Power Supply 2
Current Faults

View Thresholds

Search LUID

APU MONITOR			ADS MONITOR	
LUID	Description	Condition	LUID	Condition
3060	CHA ADUL STATUS	Maint Fault	5030	Radar Clock
3061	CHA PDU STATUS	Fault	5031	Motor On
3070	CHB ADUL STATUS	Maint Fault	5032	Normal
3071	CHB PDU STATUS	Fault	5033	Running
			5034	Interlock Closed
			5035	Comm Normal
			5036	Normal
			5037	Qualified
			5038	Qualified
			5039	Qualified
			503A	Qualified
			503B	Fault

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http://localhost/units.shtml?id=3071&sortBy=LUID&dir=0

Figure 2 – Radar Unit Monitor, Navigation to PDU B Status

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4. Confirm that both LUID 4406 and 4407 conditions read “**Normal**”.

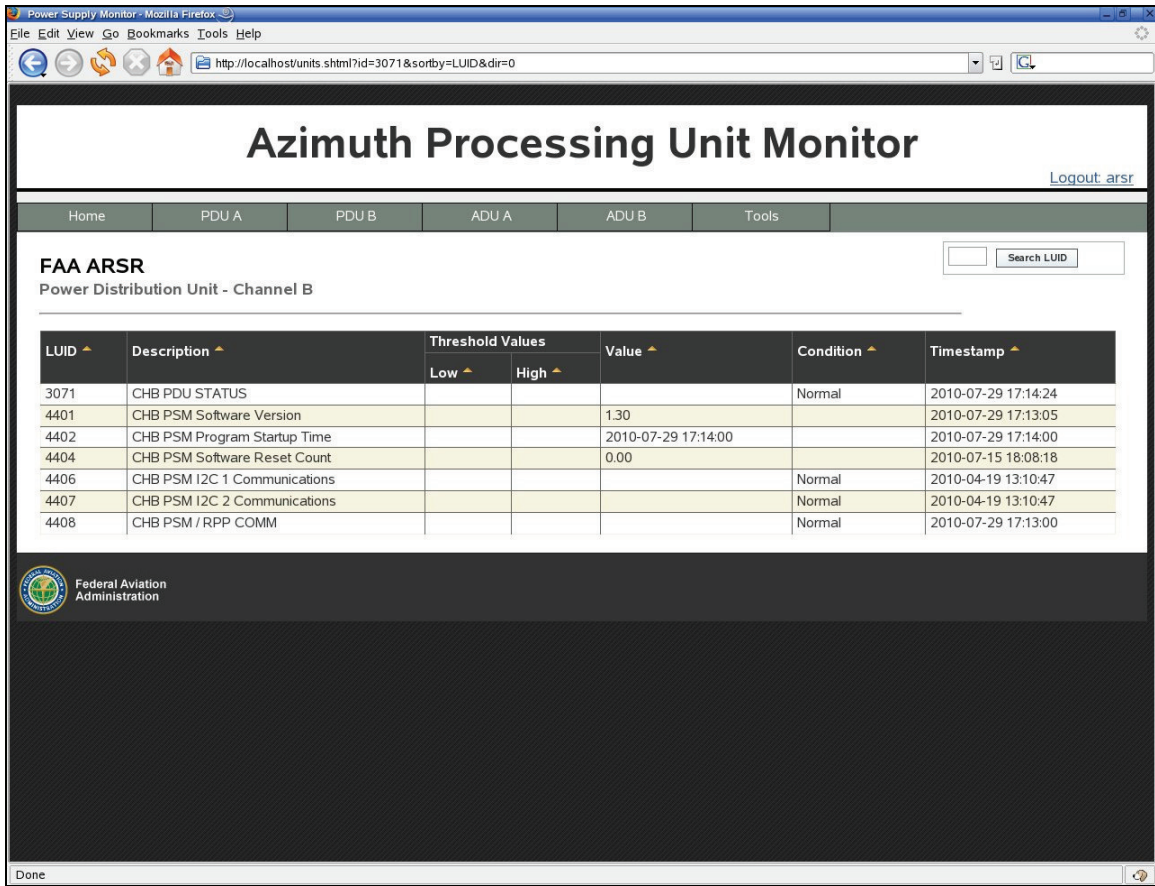


Figure 3 – PDU B Status with Normal Conditions

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5. Switch PS 1 to the “**OFF**” position. Confirm that PS 1’s LED changed to red. Refer to figure 4.



Figure 4 – PS 1 LED Indicator Change to Red.

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- Refresh the PDU B status screen and confirm that LUID 4406 condition reads “**Fault**”, refer to figure 5.

Azimuth Processing Unit Monitor

Logout: arsr

Home PDU A PDU B ADU A ADU B Tools

FAA ARSR
Power Distribution Unit - Channel B

Search LUID

LUID	Description	Threshold Values		Value	Condition	Timestamp
		Low	High			
3071	CHB PDU STATUS				Fault	2010-07-29 17:15:35
4401	CHB PSM Software Version			130		2010-07-29 17:13:05
4402	CHB PSM Program Startup Time			2010-07-29 17:14:00		2010-07-29 17:14:00
4404	CHB PSM Software Reset Count			0.00		2010-07-15 18:08:18
4406	CHB PSM I2C 1 Communications				Fault	2010-07-29 17:15:35
4407	CHB PSM I2C 2 Communications				Normal	2010-04-19 13:10:47
4408	CHB PSM / RPP COMM				Normal	2010-07-29 17:13:00

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Figure 5 – PDU B Status with 4406 Condition “Fault”

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7. Switch PS 1 into the “**ON**” position and switch PS 2 to the “**OFF**” position, confirm PS 2’s LED indicator changes to red and PS 1’s LED changes to green, refer to figure 6.

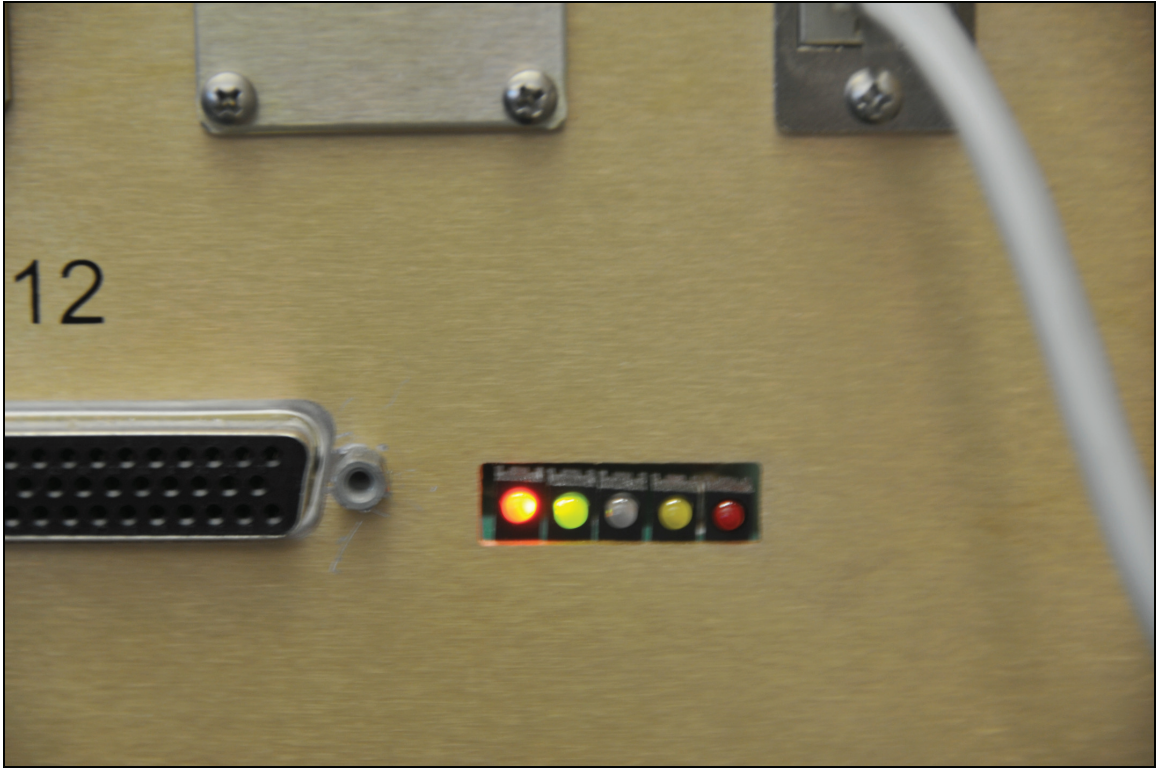


Figure 4 – PS 2 LED Indicator Change to Red.

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8. Refresh the PDU B status screen and confirm that LUID 4407's condition reads **"Fault"**, and LUID 4406's condition reads "Normal", refer to figure 5.

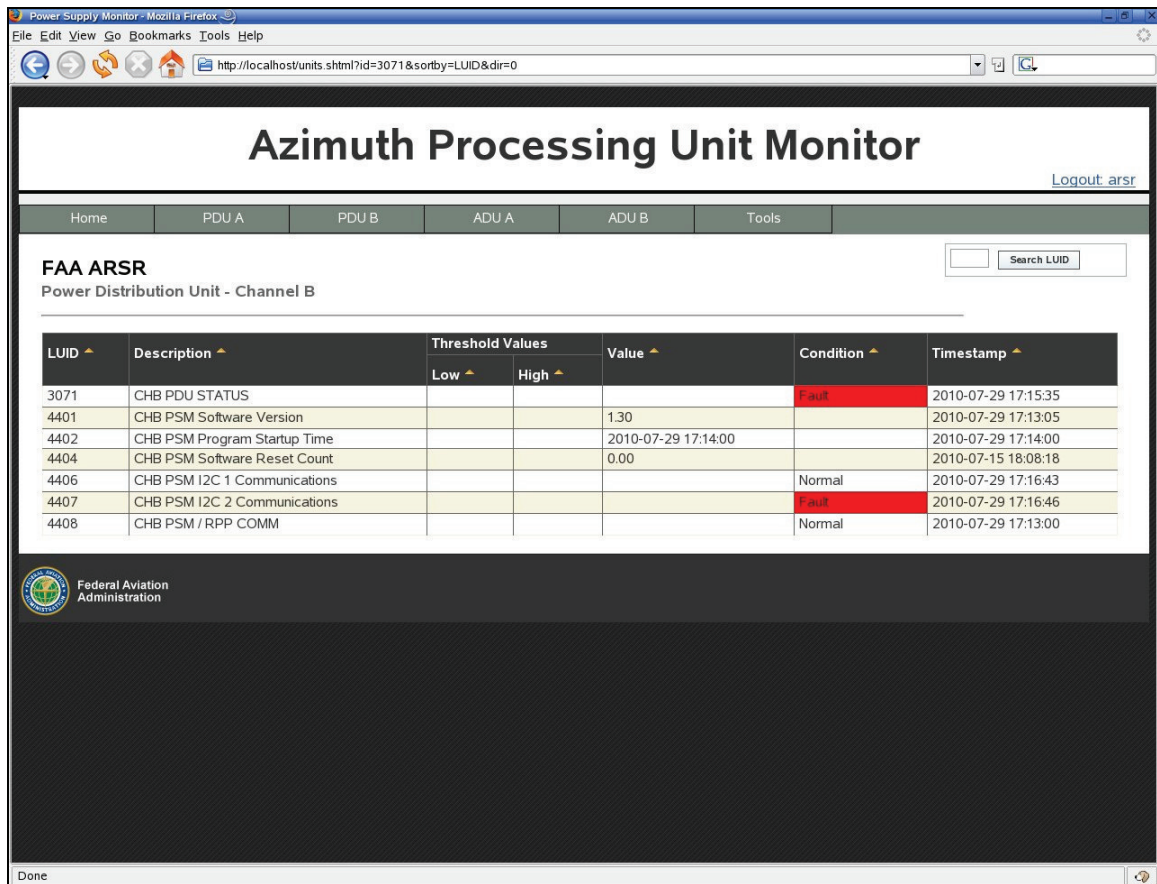


Figure 5 – PDU B Status with 4407 Condition "Fault"

9. Switch PS 2 into the **"ON"** position; confirm both LED indicators are green and LUID 4406 and 4407 conditions read "Normal".